

IN THE CLAIMS:

Please cancel claims 2, 3, 5, 8, 9, 11, 12, 14, 17 and 18, as being drawn to non-elected inventions, and amend claims 1 and 10 as follows:

1. (currently amended): A mixture of refrigerants that is a substitute for chlorodifluoromethane, comprising about 30 to 70 weight percent pentafluoroethane; and about 15 to 60 weight percent 1,1,1,2-tetrafluoroethane; and about 0.5 to 8 weight percent ~~of propylene or propane, or a mixture thereof~~; and about 0.5 to 8 weight percent dimethyl ether (DME); and about 0 to 15 weight percent 1,1,1,2,3,3-heptafluoropropane, with the weight percentages of the components of the mixture being weight percentages of the overall mixture.

2. (canceled).

3. (canceled).

4. (original): The mixture of refrigerants of claim 1 wherein pentafluoroethane is present in about 54 weight percent; 1,1,1,2-tetrafluoroethane is present in about 35 weight percent; propane is present in about 1 weight percent; dimethyl ether (DME) is present in about 4 weight percent; and 1,1,1,2,3,3-heptafluoropropane is present in about 5 weight percent.

5. (canceled).

6. (original): A mixture of refrigerants that is a substitute for R-502 (48.8 weight percent chlorodifluoromethane and 51.2 weight percent chloropentafluoroethane) and R-404A (44 weight percent pentafluoroethane, 52 weight percent 1,1,1-trifluoroethane, and 4 weight percent 1,1,1,2-tetrafluoroethane) refrigerants, comprising about 55 to 93 weight percent pentafluoroethane; and about 5 to 25 weight percent

1,1,1,2-tetrafluoroethane; and about 0.5 to 7 weight percent propane; and about 0.5 to 7 weight percent dimethyl ether (DME); and about 0 to 12 weight percent 1,1,1,2,3,3,3-heptafluoropropane, with the weight percentages of the components of the mixture being weight percentages of the overall mixture.

7. (original): The refrigerant mixture of claim 6, wherein pentafluoroethane is present in about 75 weight percent; 1,1,1,2-tetrafluoroethane is present in about 16 weight percent; propane is present in about 3 weight percent; dimethyl ether (DME) is present in about 2 weight percent; and 1,1,1,2,3,3,3-heptafluoropropane is present in about 4 weight percent.

8. (canceled).

9. (canceled).

10. (currently amended): A method for producing refrigeration in a refrigeration system designed for chlorodifluoromethane refrigerant, comprising substituting for said chlorodifluoromethane a mixture of about 30 to 70 weight percent pentafluoroethane and about 15 to 60 weight percent 1,1,1,2-tetrafluoroethane; and about 0.5 to 8 weight percent ~~of propylene or~~ propane, ~~or a mixture thereof;~~ and about 0.5 to 8 weight percent dimethyl ether (DME); and about 0 to 15 weight percent 1,1,1,2,3,3,3-heptafluoropropane, with the weight percentages of the components of the mixture being weight percentages of the overall mixture.

11. (canceled).

12. (canceled).

13. (original): The method of claim 10 wherein said substituting step consists of substituting a mixture wherein pentafluoroethane is present in about 54 weight percent;

1,1,1,2-tetrafluoroethane is present in about 35 weight percent; propane is present in about 1 weight percent; dimethyl ether (DME) is present in about 4 weight percent; and 1,1,1,2,3,3,3-heptafluoropropane is present in about 5 weight percent.

14. (canceled).

15. (original): A method for producing refrigeration in a refrigeration system designed for R-502 (48.8 weight percent chlorodifluoromethane and 51.2 weight percent chloropentafluoroethane) refrigerant and R-404A (44 weight percent pentafluoroethane, 52 weight percent 1,1,1-trifluoroethane, and 4 weight percent 1,1,1,2-tetrafluoroethane) refrigerants, comprising substituting for said refrigerants a mixture of about 55 to 93 weight percent pentafluoroethane; and about 5 to 25 weight percent 1,1,1,2-tetrafluoroethane; and about 0.5 to 7 weight percent propane; and about 0.5 to 7 weight percent dimethyl ether (DME); and about 0 to 12 weight percent 1,1,1,2,3,3,3-heptafluoropropane, with the weight percentages of the components of the mixture being weight percentages of the overall mixture.

16. (original): The method of claim 15 wherein said substituting step consists of substituting a mixture wherein pentafluoroethane is present in about 75 weight percent; 1,1,1,2-tetrafluoroethane is present in about 16 weight percent; propane is present in about 3 weight percent; dimethyl ether (DME) is present in about 2 weight percent; and 1,1,1,2,3,3,3-heptafluoropropane is present in about 4 weight percent.

17. (canceled).

18. (canceled).